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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/869,897	10/15/2001	Atsushi Inomata	450118-02282	1251
7590 03/10/2005		EXAMINER		
William S Frommer			KIM, KEVIN	
Frommer Lawrence & Haug				
745 Fifth Avenue			ART UNIT	PAPER NUMBER
New York, NY 10151			2634	<u> </u>

DATE MAILED: 03/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Commence	09/869,897	INOMATA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kevin Y Kim	2634			
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repi - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 15 C	October 2001.				
	s action is non-final.				
3) Since this application is in condition for allowa					
Disposition of Claims					
4)	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 15 October 2001 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Example 11.	: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/6/01.</li> </ol>	Paper No(s)/Mail Da				

Application/Control Number: 09/869,897

Art Unit: 2634

#### **DETAILED ACTION**

## Specification

1. The title of the invention is excessively long and redundant. A new title is required that is clearly indicative of the invention to which the claims are directed.

### Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Representative claim 1 is discussed for the purpose of brevity. But this discussion is applied to all the claims identified above as they include the same subject matter having one or more of the following indefinite language. Claim 1 calls for counting "the number of times of normalization, performed when generating a state metric within a predetermined time."

However, this claim limitation is not understood at all. First, what is involved in performing "normalization" is not understood. Likewise, what it is to generate "a state metric within a predetermined time" is not understood. Second, the language defining "an estimating means" is so confusing, particularly because of the use the phrase "based on the number of times of normalization counted by the counting means." In other words, when the estimating means estimates the error rate between the number of times of normalization and the error rate respectively determined for each different transmission system, it does so already "based on the

number of times of normalization counted by the counting means." And yet the claim uses this language again, creating confusion as to the role of this "number of normalization" when the error rate is estimated. Third, the preamble already defines a quadrature modulation system, therefore creating confusion as to the limitation "the error rate respectively determined for each different transmission system" or "each different coding rate." Finally, the error rate respectively determined for each different transmission system implies a plurality of error rates determined for different transmission systems. Then, which one of the plurality of error rates is corresponded with the number of times of normalization for estimating the error rate is not clear.

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Walker (US 5,463,403) teaches counting the number of normalization of computed path metric by a Viterbi decoder for error rate measurement.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/869,897

Art Unit: 2634

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Page 4

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